Guns, Missiles, and Munitions

Colonel Mike Beasock
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OPERATIONAL ENVIRONMENT

What are our major concerns of the future battlefield?
**OPERATIONAL REQUIREMENTS**

*Warfighting is about:*
- Joint and Combined arms capabilities
- Complimentary gun, missiles, and munitions capabilities

*Central issues:*
- What is the right mix given the operational environment?
- Where do we invest our limited resources?

Missiles and Munitions..........or ...........Gun Platforms?
THE ARGUMENT FOR CLOSE COMBAT MISSILES AND MUNITIONS

• Reality of close combat challenges our desire for stand-off engagements.
• We must have the capability to dominate in the close fight.
• Current close combat systems do not provide decisive capabilities.
• Close fight missiles and munitions:
  - Aging stockpiles
  - Limited success in modernizing / spiral development
  - Are key enablers

Advantages of Missiles and Munitions

- Light weight lethality
- Range of effects and employment options
- Can provide overwhelming lethality where most needed
- Can defeat the toughest targets… scaleable
- Can provide LOS and BLOS overmatch
- Can effectively defeat counter-measures
- Networked and autonomous lethality
- Relatively low cost
- Can enhance platform lethality… secondary armament
CLOSE COMBAT, MAN-PORTABLE LETHALITY

Before

![Image of a tank before the test](image1)

After

![Image of the tank after the test](image2)

Javelin vs T-72

April 2001
Redstone Arsenal, AL
CLOSE COMBAT MISSILES AND MUNITIONS

• **Missiles:**
  - **Optimized for stand-off against armor**
  - **Non-optimized for bunkers, fortifications, and buildings**

• **Munitions:**
  - **Optimized for close-in targets**
  - **Lack stand-off from small arms fire**
  - **Limited in range**

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Marine using Javelin against a building in Iraq 23 Mar 03.

- **M141 BDM**: 150M
- **M72 LAW**: 200M
- **M136 AT4**: 300M
- **SMAW**: 300M
- **M3 Carl Gustav**: 200M-1500M
- **Javelin**: 2000M
- **TOW Bunker Buster**: 3750M
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END OF PRESENTATION

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MISSILE SYSTEM STRATEGY

NEAR-TERM
02  03  04  05  06  07  08  09  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

TOW 2A
END USE ( <.91 reliability)

TOW 2B
MOD. TOW 2B
PROCURE ~ 1000/yr THRU 2015

TOW BB
ITAS P3I – BATTERY POWER & COMMON PROCESSOR

ITAS

LOSAT
DISMOUNTED INF WPNS SQD
ARMED ROBOTIC VEHICLES
INFANTRY CARRIER VEHICLE
MOUNTED COMBAT SYSTEM

JAVELIN
OBJECTIVE FORCE JAVELIN
MOUNTED COMBAT SYSTEM

TOW 2B
END USE ( <.91 reliability) or SLEP

END USE

MOD. TOW 2B

ITAS / JAVELIN APPLIQUE

END USE ( <.91 reliability)

COMMON MISSILE

OBJECTIVE FORCE JAVELIN

MITAS / JAVELIN APPLIQUE